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### 1 [System facilities for CAD databases](#)

Charles M. Eastman

June 1980 **Proceedings of the 17th conference on Design automation**
 Full text available: pdf(858.82 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper, an attempt is made to lay out the special needs of design databases, as compared to the facilities provided in conventional database systems now commercially available. The paper starts from a point of commonality and focusses on the limitations and shortcomings commonly found in current database systems. It is impossible and unwise to make universal statements about DBMS capabilities. Instead, the goal is to identify those special features that, by their capability, provide ...

### 2 [Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, and its public key infrastructure integration](#)

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2
 Full text available: pdf(107.24 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The logic ruling the user and network authentication as well as the data ciphering in the GSM architecture is characterized, regarding the transferring of the parameters employed in these processes, by transactions between three nodes of the system, that is the MS, actually the SIM, the visited MSC/VLR, and the AuC, which is attached to the HLR in most cases. The GPRS and the UMTS architecture carry the heritage of the GSM's philosophy regarding the user/network authentication and the data cipher ...

**Keywords:** PKIs, PLMNs, asymmetric cryptography

### 3 [A reusable Ada package for scientific dimensional integrity](#)

George W. Macpherson

May 1996 **ACM SIGAda Ada Letters**, Volume XVI Issue 3
 Full text available: pdf(760.46 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Abstract -- Our recent experience in operations Desert Shield and Desert Storm has clearly demonstrated the criticality of software reliability and that truly reliable software is indeed possible. One tool we can employ to enhance our software reliability is the classic scientific computational reliability technique of dimensional integrity, or unite checking. The Ada programming language makes it easy to implement units checking. A PHYSICAL\_QUANTITY type is declared which has entries for both t ...

### 4 [The advantages of electronic data interchange](#)

François Bergeron, Louis Raymond  
October 1992 **ACM SIGMIS Database**, Volume 23 Issue 4

Full text available:  [pdf\(1.31 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

The purpose of this research was to identify success factors of EDI implementation and the benefits organizations could obtain by using this technology. The success factors found empirically in a field study of 140 Canadian enterprises are the organizational support, the implementation process, the control procedures and the level of EDI integration in the firm. The level of success also depends upon the level of imposition of EDI by partners. The study found evidence that, in order of importance ...

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### 1 [Evolutionary combinatorial optimization: Towards a self-stopping evolutionary algorithm using coupling from the past](#)



German Hernandez, Kenneth Wilder, Fernando Nino, Julian Garcia

 June 2005 **Proceedings of the 2005 conference on Genetic and evolutionary computation GECCO '05**

 Full text available: [pdf\(264.70 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper a stopping criterion for a particular class of evolutionary algorithms is devised. First, a model of a generic evolutionary algorithm using iterated random maps is presented. The model allows the exploration of a connection between coupling from the past, and a stopping criterion for evolutionary algorithms. Accordingly, a method to stop a generic evolutionary algorithm is proposed. Some computational experiments are carried out to test the stopping criterion, using a modified vers ...

**Keywords:** algorithms, coupling from the past, evolutionary, optimization, stopping criteria

### 2 [Session 1C: Variable length path coupling](#)



Thomas P. Hayes, Eric Vigoda

 January 2004 **Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**

 Full text available: [pdf\(233.43 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

We present a new technique for constructing and analyzing couplings to bound the convergence rate of finite Markov chains. Our main theorem is a generalization of the path coupling theorem of Bubley and Dyer, allowing the defining partial couplings to have length determined by a random stopping time. Unlike the original path coupling theorem, our version can produce multi-step (non-Markovian) couplings. Using our variable length path coupling theorem, we improve the upper bound on the mixing tim ...

### 3 [Peer-to-peer: Brief announcement: coupling for Markov decision processes - application to self-stabilization with arbitrary schedulers](#)



Laurent Fribourg, Stéphane Messika

 July 2005 **Proceedings of the twenty-fourth annual ACM SIGACT-SIGOPS symposium on Principles of distributed computing PODC '05**

 Full text available: [pdf\(97.90 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

**Keywords:** correctness, fault tolerance, randomized distributed algorithms, rates of convergence, verification

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D Argast, M Samland, FK Thielemann, YZ Qian - A&A, 2004 - edpsciences.org

Page 1. A&A 416, 997–1011 (2004) DOI: 10.1051/0004-6361:20034265 c ESO 2004 Astronomy

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BS Sathyaprakash, JD Romano, LP Grishchuk, BF ... - astro.cf.ac.uk

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